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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY Germany (Soviet Zone)

SUBJECT Increase in Zeiss Jena Works Production

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1. Production of wide angle lenses was further increased in January 1954 at the Carl Zeiss works, Jena. Two more telephoto lenses with a focal length of 1.5 meters are in development. These lenses are used exclusively in phototheodolites, which are to be built by the Askania works at Teltow, in future. The film apparatus and adapter are manufactured by Zeiss Jena. This theodolite is a further development of the well-known Askania phototheodolite. The development work has been completed. However, production of telephoto lenses at Zeiss Jena cannot begin before the middle of March 1954.

2. The telescopic sighting apparatus (Richtfernrohr) is still in development because the one in hand was rejected by the Soviet inspecting commission for the reason that the parallax error was more than 1-600th degree for long range; 1-600th degree is the maximum parallax error for a viewing angle from 6 to 26 percent. This job will also be ready for production by the middle of March. The apparatus uses standard motion picture film. The camera mechanism makes it possible to take up to 38 pictures per second. The camera was developed by Zeiss Ikon of Dresden. The telephoto lens has a focal distance of 1.5 meters. (Ratio of focal distance to lens aperture, 1:8). The quartz oscillator used to synchronize the camera was developed for Zeiss by the RFT Erfurt. The plant will not be ready to undertake production until the middle of 1954, but the Soviet Union is demanding the first deliveries by 3 Jun 54. The apparatus is most probably used for airfield control. Eight are to be manufactured by the end of 1954. Zeiss has been making theodolite lenses since 1947, but these appear to be the first electronic-optical ones. It is reported that 2,200,000 marks were appropriated for the development.

3. There has been no change in the production of field glasses; 42 stereotelescopes were produced in January 1954. Production of telescopic sight (Zielfernröhren) was the same as in December 1953.

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